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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/616,690	07/09/2003	Roger A. Davis	066733-0033	1632
41552	7590 09/09/2005		EXAMINER	
	TT, WILL & EMERY	HAMA, JOANNE		
4370 LA JOLLA VILLAGE DRIVE, SUITE 700 SAN DIEGO, CA 92122			ART UNIT	PAPER NUMBER
			1632	
			DATE MAILED: 00/00/2005	

DATE MAILED: 09/09/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

·	2					
	Application No.	Applicant(s)				
	10/616,690	DAVIS, ROGER A.				
Office Action Summary	Examiner	Art Unit				
	Joanne Hama, Ph.D.	1632				
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with the	correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a repl - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply be to bly within the statutory minimum of thirty (30) da will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONI	mely filed ys will be considered timely. In the mailing date of this communication. ED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 09.	luly 2003.					
2a) ☐ This action is <b>FINAL</b> . 2b) ☑ Thi						
3) Since this application is in condition for allowa	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4) Claim(s) 1-37 is/are pending in the application	<b>1</b> .					
4a) Of the above claim(s) is/are withdra	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.						
6) Claim(s) is/are rejected.	Claim(s) is/are rejected.					
7) Claim(s) is/are objected to.	Claim(s) is/are objected to.					
8) Claim(s) <u>1-37</u> are subject to restriction and/or	☑ Claim(s) <u>1-37</u> are subject to restriction and/or election requirement.					
Application Papers	•	•				
9) The specification is objected to by the Examiner.						
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the E	examiner. Note the attached Office	e Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
<ul> <li>12) Acknowledgment is made of a claim for foreig</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority document</li> <li>2. Certified copies of the priority document</li> <li>3. Copies of the certified copies of the priority application from the International Burea</li> </ul>	nts have been received. Ints have been received in Applica Fority documents have been receive	tion No				
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)	a, □	(DTO 442)				
<ol> <li>Notice of References Cited (PTO-892)</li> <li>Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> </ol>	y (PTO-413) Date					
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date	5) Notice of Informal 6) Other:	Patent Application (PTO-152)				

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This Application, filed July 9, 2003, claims priority to U.S. Provisional Application 60/394,569, filed July 9, 2002.

Claims 1-37 are pending.

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- 1. Claims 1, 2, 4-8, drawn to a method for introducing a population of progenitor cells into an individual and a method for reducing a disease or condition comprising introducing a population of progenitor cells which are not genetically modified into an individual, classified in class 435, subclass 325.
- II. Claims 1, 2, 4-36, drawn to a method for introducing a population of progenitor or Kupffer cells which are genetically modified, classified in class 435, subclass 325.
- III. Claims 37-38, drawn to a method for stimulating an immune response against an antigen, comprising steps of repopulating a first population of Kupffer cells with a second population of Kupffer cells comprising a transgene that encodes an antigen, classified in class 435, subclass 362.

The inventions are distinct, each from the other because of the following reasons:

Claim 3 link(s) inventions I and II. The restriction requirement amongst the linked inventions is subject to the nonallowance of the linking claim(s), claim 3. Upon the

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allowance of the linking claim(s), the restriction requirement as to the linked inventions shall be withdrawn and any claim(s) depending from or otherwise including all the limitations of the allowable linking claim(s) will be entitled to examination in the instant application. Applicant(s) are advised that if any such claim(s) depending from or including all the limitations of the allowable linking claim(s) is/are presented in a continuation or divisional application, the claims of the continuation or divisional application may be subject to provisional statutory and/or nonstatutory double patenting rejections over the claims of the instant application. Where a restriction requirement is withdrawn, the provisions of 35 U.S.C. 121 are no longer applicable. *In re Ziegler*, 44 F.2d 1211, 1215, 170 USPQ 129, 131-32 (CCPA 1971). See also MPEP § 804.01.

Inventions I, II, and III are patentably distinct because while each Invention is drawn to a method for introducing a population of progenitor cells into an individual, Group I is drawn to progenitor cells that are not transgenic, while the cells in Group II and Group III are transgenic. Group II is distinct from Group III because the method of Group II encompasses treating a disease, which is distinct from Group III, which is drawn to invoking an immune response to an antigen. Each of the cells of Groups I, II, and III are structurally and functionally different from each other. The search for the three Inventions is undue as the searches are not coextensive.

Because these inventions are distinct for the reasons given above and the search required for one invention is not required for another and that these inventions

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have acquired a separate status in the art because of their recognized divergent subject matter, restriction for examination purposes as indicated is proper.

This application contains claims directed to the following patentably distinct species of the claimed invention:

The invention is comprised of multiple transgenes which can be expressed in Kupffer cells:

- 1. paraoxonase,
- 2. cholesterol- $7\alpha$ -hydroxylase,
- 3. apolipoprotein A1,
- 4. insulin,
- 5. erythropoietin.

or is comprised of a transgene which inhibits:

- 6. 12/15 lipoxygenase,
- 7. 5-lipoxygenase,
- 8. cytokine secretion
- 9. activation of Toll-like receptor 4.

Additionally, the invention is comprised of multiple tissues in which the first population of cells replaces:

- a. liver,
- b. lung,
- c. spleen,

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d. bone marrow.

Additionally, the invention is comprised of multiple diseases or symptom in which

the claimed method treats:

A. atherosclerosis,

B. Gaucher disease,

C. diabetes,

D. inflammation.

One transgene selected from the group of 1-9 above, one tissue selected from

the group of a-d above, and one disease selected from the group of A-D above, must be

elected. Applicant is required under 35 U.S.C. 121 to elect a single disclosed species

from each group for prosecution on the merits to which the claims shall be restricted if

no generic claim is finally held to be allowable. Currently, claims 1-10, 21-25, 34-36 are

generic.

Applicant is advised that a reply to this requirement must include an identification

of the species that is elected consonant with this requirement, and a listing of all claims

readable thereon, including any claims subsequently added. An argument that a claim

is allowable or that all claims are generic is considered nonresponsive unless

accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration

of claims to additional species which are written in dependent form or otherwise include

all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims

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are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Joanne Hama, Ph.D. whose telephone number is 571-272-2911. The examiner can normally be reached Monday through Thursday and alternate Fridays from 9:00-5:00.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ram Shukla, Ph.D. can be reached on 571-272-0735. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to (571) 272-0547.

Patent applicants with problems or questions regarding electronic images that can be viewed in the Patent Application Information Retrieval system (PAIR) can now contact the USPTO's Patent Electronic Business Center (Patent EBC) for assistance. Representatives are available to answer your questions daily from 6 am to midnight (EST). The toll free number is (866) 217-9197. When calling please have your application serial or patent number, the type of document you are having an image problem with, the number of pages and the specific nature of the problem. The Patent Electronic Business Center will notify applicants of the resolution of the problem within 5-7 business days. Applicants can also check PAIR to confirm that the problem has been corrected. The USPTO's Patent Electronic Business Center is a complete service center supporting all patent business on the Internet. The USPTO's PAIR system provides Internet-based access to patent application status and history information. It also enables applicants to view the scanned images of their own application file folder(s) as well as general patent information available to the public. For all other customer support, please call the USPTO Call Center (UCC) at 800-786-9199.

JH

ANNE M. WEHBE' PH.D PRIMARY EXAMINER